

# Weekly Coal Production

Production for Week Ended:  
February 22, 1992,



# **NOTICE**

The Energy Information Administration is not planning to publish monthly coal and coke import/export data after this issue. The monthly coal and coke import/export data, shown in Tables 3 through 15 of this report, will be available by quarter in the Quarterly Coal Report.

## Preface

The *Weekly Coal Production* (WCP) report provides weekly estimates of U.S. coal production by State. Supplementary data are usually published monthly in two supplements: the Coal Exports and Imports Supplement and the Domestic Market Supplement. This week's Coal Exports and Imports Supplement contains detailed monthly data on U.S. coal and coke exports and imports. The Domestic Market Supplement contains detailed monthly electric utility coal statistics, by Census Division and State, for generation, consumption, stocks, receipts, sulfur content, prices, and the origin and destination of coal shipments. This supplement also contains summary-level, monthly data for all coal-consuming sectors on a quarterly basis.

Preliminary coal production data are published quarterly, based on production data collected using Form EIA-6, "Coal Distribution Report." Based on 1988 through 1990 data, the coal production estimation error for a quarter at the national level (i.e., the difference between the sum of the weekly estimates for a quarter and the quarterly EIA-6 preliminary data) ranges from 1 percent to 4 percent for 1988, 1 percent to 2 percent for 1989, and 0.3 percent to 3 percent for 1990.

Final coal production data are published annually, based on the EIA-7A coal production survey. Based

on 1988 through 1990 data, the revision error for a quarter at the national level (i.e., the difference between the EIA-6 preliminary data and the EIA-7A final data) ranges from 0.02 percent to 0.08 percent for 1988, 0.09 percent to 0.14 percent for 1989, and 0.01 percent to 0.05 percent for 1990. Usually the EIA-7A coal production data are higher than the EIA-6 coal production data, due to differences in the threshold reporting requirements.

This publication is prepared by the Survey Management Division; Office of Coal, Nuclear, Electric and Alternate Fuels; Energy Information Administration (EIA) to fulfill its data collection and dissemination responsibilities as specified in the Federal Energy Administration Act of 1974 (P.L. 93-275) as amended. *Weekly Coal Production* is intended for use by industry, press, State and local governments, and consumers. Other publications that may be of interest are the quarterly *Coal Distribution*, the *Quarterly Coal Report*, *Coal Production 1990*, and *Coal Data: A Reference*.

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**Distribution Category UC-950**

**Released for printing February 28, 1992**

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## **Summary**

U.S. coal production in the week ended February 22, 1992, as estimated by the Energy Information Administration (EIA), totaled 20 million short tons. This was slightly higher than in the previous week, but 5 percent lower than in the comparable week in 1991. Production east of the Mississippi River totaled 12 million short tons, and production west of the Mississippi River totaled 8 million short tons.

### **1991 Coal Exports and Imports**

U.S. coal exports in December 1991 were 9 million short tons, which brought the total for 1991 to 109 million short tons, the second highest annual total. The increase was due chiefly to a 12-percent rise in shipments to Europe. The leading destinations for U.S. coal exports were Japan, Italy, and Canada, together receiving almost one-third of the total. The 1991 coal exports were valued at \$4.6 billion, based on an average price of \$42.39 per short ton. Over one-half of the exported coal was shipped from the Customs District of Norfolk, Virginia, which handled 6 percent more export coal than in 1990.

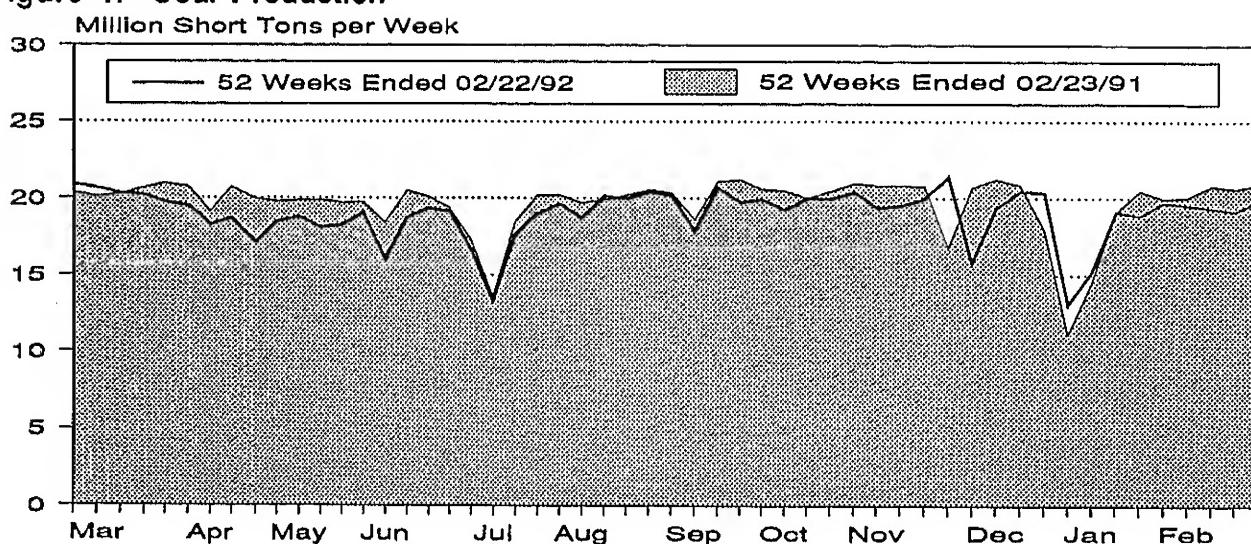
Steam coal exports in 1991 totaled 44 million short tons, an increase of 5 percent over the amount in 1990. However, Canada, the principal destination, received 4 million short tons less than in 1990. The decrease reflects in part the stock build-up that took place in 1990 to partially offset the scheduled maintenance-related outages at Ontario Hydro's nuclear

power plants during the year. It also reflects the draw-down in coal stocks when electricity generation was lower than anticipated. In comparison, exports of steam coal to Europe totaled 27 million short tons, 24 percent above 1990. The Netherlands, Italy, and Denmark were the principal destinations, together receiving 52 percent of the total. While the Netherlands and Denmark increased their steam coal tonnage by 14 percent and 31 percent, respectively, Italy's tonnage declined by 3 percent. Taiwan was the leading Asian destination, with 4 million short tons, a decline of 3 percent from 1990.

Metallurgical coal exports in 1991 amounted to 65 million short tons, an increase of 2 percent over 1990. Japan was the principal destination, but the 9 million short tons it imported was 15 percent less than in 1990 reflecting in part, increased competition from Australia and Canada. By contrast, metallurgical coal exports to Europe increased 5 percent to 39 million short tons. The 8 percent decline in exports to Italy, the principal European destination, was more than offset by the increases in metallurgical coal demand in France, the Netherlands, and the United Kingdom.

U.S. coal imports in 1991 reached a record high of 3.4 million short tons, 26 percent more than in 1990. Colombia was the leading source of imported coal, accounting for 56 percent of the total. Total coal imports in 1991 were valued at \$112 million, based on an average price of \$33.12 per short ton.

**Figure 1. Coal Production**



**Table 1. Weekly U.S. Coal Production Overview**

Production and Carloadings	Week Ended			52 Weeks Ended		
	02/22/92	02/15/92	02/23/91	02/22/92	02/23/91	Percent Change
<b>Production (Thousand Short Tons)</b>						
Bituminous Coal <sup>1</sup> and Lignite . . . . .	19,789	19,115	20,823	981,936	1,017,843	-3.5
Pennsylvania Anthracite . . . . .	54	55	67	2,848	3,439	-17.2
U.S. Total . . . . .	19,843	19,170	20,890	984,784	1,021,282	-3.6
Railroad Cars Loaded . . . . .	127,734	123,374	132,250	6,481,674	6,644,323	-

<sup>1</sup>Includes subbituminous coal.

Notes: All data are preliminary. Totals may not equal sum of components because of independent rounding.

Sources: Association of American Railroads, Transportation Division, Weekly Statement CS-54A; Energy Information Administration, Form EIA-6, "Coal Distribution Report"; Form EIA-7A, "Coal Production Report"; and State mining agency coal production reports.

**Table 2. Weekly U.S. Coal Production by Region and State**  
 (Thousand Short Tons)

Region and State	Week Ended		
	02/22/92	02/15/92	02/23/91
<b>Bituminous Coal<sup>1</sup> and Lignite</b>			
East of the Mississippi . . . . .	11,628	11,287	12,266
Alabama . . . . .	610	590	532
Illinois . . . . .	1,239	1,113	1,339
Indiana . . . . .	480	609	671
Kentucky . . . . .	3,002	2,972	3,331
Kentucky, Eastern . . . . .	2,209	2,136	2,377
Kentucky, Western . . . . .	794	837	953
Maryland . . . . .	70	67	77
Ohio . . . . .	594	598	655
Pennsylvania Bituminous . . . . .	1,346	1,213	1,301
Tennessee . . . . .	91	89	96
Virginia . . . . .	842	822	890
West Virginia . . . . .	3,354	3,213	3,374
West of the Mississippi . . . . .	8,161	7,827	8,557
Alaska . . . . .	36	35	26
Arizona . . . . .	229	221	285
Arkansas . . . . .	*	*	*
Colorado . . . . .	411	347	427
Iowa . . . . .	8	7	8
Kansas . . . . .	11	10	10
Louisiana . . . . .	13	29	30
Missouri . . . . .	43	41	40
Montana . . . . .	772	731	752
New Mexico . . . . .	491	525	386
North Dakota . . . . .	584	553	644
Oklahoma . . . . .	54	47	33
Texas . . . . .	1,007	972	1,057
Utah . . . . .	498	433	517
Washington . . . . .	98	94	106
Wyoming . . . . .	3,906	3,780	4,238
Bituminous Coal <sup>1</sup> and Lignite Total . . .	19,789	19,115	20,823
Pennsylvania Anthracite . . . . .	54	55	67
S. Total . . . . .	19,843	19,170	20,890

<sup>1</sup>Includes subbituminous coal.

\*Less than 0.5 thousand short tons.

Notes: All data are preliminary. Totals may not equal sum of components because of independent rounding.

Sources: Association of American Railroads, Transportation Division, Weekly Statement CS-54A; Energy Information Administration, Form EIA-6, "Coal Distribution Report"; Form EIA-7A, "Coal Production Report"; and State mining agency production reports.

**Table 3. Coal Exports and Imports, 1982-1991**  
 (Thousand Short Tons and Dollars per Short Ton)

Year and Month	Exports				Imports			
	Metallurgical		Steam <sup>1</sup>		Total	Quantity	Average Price <sup>2</sup>	
	Quantity	Average Price <sup>2</sup>	Quantity	Average Price <sup>2</sup>				
2 . . . . .	64,585	\$61.07	41,692	\$49.11	106,277	\$56.37	742	\$30.40
3 . . . . .	49,964	55.49	27,807	46.18	77,772	52.16	1,271	33.59
4 . . . . .	56,975	52.41	24,508	46.77	81,483	50.72	1,286	35.37
5 . . . . .	60,313	50.46	32,367	43.92	92,680	48.18	1,952	36.04
6 . . . . .	54,977	47.81	30,541	42.60	85,518	45.95	2,212	36.02
7 . . . . .	51,679	44.49	27,928	39.60	79,607	42.77	1,747	32.04
8 . . . . .	61,950	44.17	33,073	38.59	95,023	42.23	2,134	29.96
9								
January . . . . .	4,488	43.92	1,818	36.29	6,306	41.72	66	36.14
February . . . . .	5,298	44.32	1,450	37.14	6,748	42.78	131	31.89
March . . . . .	6,163	44.17	2,212	36.98	8,375	42.27	334	33.86
April . . . . .	6,061	44.08	3,042	38.46	9,104	42.20	158	31.46
May . . . . .	6,303	45.40	3,381	37.40	9,685	42.61	312	32.19
June . . . . .	5,598	45.82	4,059	38.14	9,657	42.59	218	39.04
July . . . . .	3,881	45.77	2,328	37.95	6,209	42.84	375	36.65
August . . . . .	4,925	46.09	3,197	37.30	8,122	42.63	247	33.85
September . . . . .	5,754	45.94	3,907	37.31	9,661	42.45	303	33.64
October . . . . .	5,922	45.50	3,371	37.97	9,293	42.77	160	33.20
November . . . . .	6,026	45.81	3,743	38.05	9,768	42.84	245	31.54
December . . . . .	4,710	45.65	3,179	37.66	7,888	42.43	303	35.09
Total . . . . .	65,128	45.19	35,687	37.64	100,815	42.52	2,851	34.14
10								
January . . . . .	4,901	45.72	2,547	37.29	7,447	42.84	175	33.01
February . . . . .	4,381	45.92	1,862	36.36	6,243	43.07	268	35.91
March . . . . .	6,254	45.78	2,439	38.36	8,693	43.70	292	35.54
April . . . . .	4,754	45.95	3,836	38.60	8,590	42.67	182	31.45
May . . . . .	5,643	46.81	4,184	36.50	9,827	42.42	144	34.08
June . . . . .	5,699	46.35	3,616	36.35	9,316	42.47	348	34.65
July . . . . .	5,495	46.82	3,698	35.69	9,194	42.34	200	29.58
August . . . . .	5,598	46.59	4,467	37.57	10,065	42.59	120	35.72
September . . . . .	5,567	46.70	4,671	35.89	10,238	41.76	194	32.31
October . . . . .	4,471	47.06	4,286	36.41	8,756	41.85	284	41.32
November . . . . .	5,805	46.42	3,816	36.88	9,621	42.63	224	32.86
December . . . . .	4,890	48.07	2,923	36.32	7,813	43.67	268	33.40
Total . . . . .	63,459	46.51	42,345	36.81	105,804	42.63	2,699	34.45
11								
January . . . . .	3,853	47.87	2,361	36.82	6,214	43.67	263	32.36
February . . . . .	6,113	47.14	2,013	39.67	8,127	45.29	429	34.87
March . . . . .	5,178	47.69	2,799	38.80	7,977	44.57	246	33.12
April . . . . .	4,773	46.45	2,145	39.17	6,917	44.19	198	32.09
May . . . . .	6,442	46.72	3,576	37.56	10,018	43.45	248	39.50
June . . . . .	4,838	45.53	4,441	37.18	9,278	41.54	284	32.07
July . . . . .	5,485	45.05	4,614	36.78	10,099	41.27	348	33.66
August . . . . .	6,318	46.39	4,223	37.06	10,541	42.65	248	29.57
September . . . . .	6,092	44.61	4,465	35.14	10,557	40.61	387	30.67
October . . . . .	5,483	45.07	3,761	35.93	9,244	41.35	214	33.70
November . . . . .	5,108	45.95	5,494	35.99	10,602	40.79	298	34.01
December . . . . .	4,963	45.80	4,431	36.37	9,393	41.35	225	31.52
91 Year to Date . . .	64,645	46.15	44,323	36.91	108,969	42.39	3,390	33.12
90 Year to Date . . .	63,459	46.51	42,345	36.81	105,804	42.63	2,699	34.45

<sup>1</sup>Includes bituminous, subbituminous, lignite, and anthracite.

<sup>2</sup>Average price of all coal exports in this category.

Note: Total may not equal sum of components because of independent rounding.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report EM 522" and "Monthly Report IM 145."

**Table 4. Coal Exports, December 1991**  
**(Short Tons)**

Continent and Country of Destination	December 1991	November 1991	December 1990	Year to Date		
				1991	1990	Percent Change
<b>North America Total</b>	<b>1,278,283</b>	<b>1,842,905</b>	<b>803,406</b>	<b>11,454,337</b>	<b>15,858,908</b>	<b>-27.8</b>
Canada <sup>1</sup>	1,275,307	1,761,905	796,945	11,177,925	15,511,123	-27.9
Dominican Republic	63	58,865	-	129,727	82,057	58.1
Jamaica	-	15,048	-	51,551	52,196	-1.2
Mexico	2,913	6,634	6,461	92,175	210,484	-56.2
Other <sup>2</sup>	-	453	-	2,959	3,048	-2.9
<b>South America Total</b>	<b>828,013</b>	<b>573,577</b>	<b>750,438</b>	<b>7,660,951</b>	<b>6,902,258</b>	<b>11.0</b>
Argentina	-	-	62,504	429,422	640,041	-32.9
Brazil	814,532	569,985	659,758	7,051,872	5,846,909	20.6
Chile	-	-	20,283	135,037	376,710	-64.2
Other <sup>2</sup>	13,481	3,592	7,893	44,620	38,598	15.6
<b>Europe Total</b>	<b>5,297,878</b>	<b>5,850,801</b>	<b>4,298,274</b>	<b>65,519,766</b>	<b>58,382,337</b>	<b>12.2</b>
Albania	-	-	112,152	178,057	-37.0	-
Belgium & Luxembourg	520,148	418,279	647,770	7,464,022	8,500,374	-12.2
Bulgaria	54,472	107,632	-	946,224	87,955	NM
Denmark	387,977	444,565	185,519	4,657,567	3,187,901	46.1
Finland	-	181,203	-	530,240	95,259	456.6
France	986,941	783,375	329,775	9,509,010	6,879,103	38.2
Ireland	103,194	200,719	197,853	1,312,606	1,457,655	-10.0
Italy	1,105,344	856,784	1,313,214	11,273,797	11,946,574	-5.6
Netherlands	1,004,198	701,413	500,914	9,625,206	8,368,656	15.0
Norway	11,742	6,861	11,506	199,899	177,100	12.9
Portugal	127,363	213,903	69,711	1,629,310	1,785,952	-8.8
Romania	-	-	64,524	1,146,840	1,718,132	-33.3
Spain	276,823	403,453	439,994	4,694,166	3,791,258	23.8
Sweden	81,395	275,386	-	1,239,194	865,718	43.1
Turkey	-	284,959	-	2,186,245	2,117,292	3.3
United Kingdom	503,952	519,801	388,133	6,170,689	5,177,402	19.2
Germany, FR	66,233	444,602	102,072	1,742,313	1,057,271	64.8
Yugoslavia	60,027	-	39,411	978,723	932,636	4.9
Other <sup>2</sup>	8,169	7,866	7,878	101,563	58,142	74.7
<b>Asia Total</b>	<b>1,694,373</b>	<b>2,111,603</b>	<b>1,859,352</b>	<b>21,788,412</b>	<b>22,725,014</b>	<b>-4.1</b>
China (Taiwan)	365,015	610,564	209,781	4,546,651	4,604,450	-1.3
Hong Kong	441	134,918	-	600,338	119,553	402.2
Israel	109,440	-	-	651,383	638,996	1.9
Japan	881,403	1,069,014	1,087,289	12,268,683	13,337,554	-8.0
Korea, Republic of	337,678	297,041	562,282	3,710,617	3,999,027	-7.2
Other <sup>2</sup>	396	66	-	10,740	25,434	-57.8
<b>Oceania &amp; Australia Total</b>	-	-	510	133	2,604	-94.9
<b>Africa Total</b>	<b>294,635</b>	<b>223,172</b>	<b>101,348</b>	<b>2,544,995</b>	<b>1,932,768</b>	<b>31.7</b>
Algeria	-	-	-	522,275	479,217	9.0
Egypt	108,248	103,621	101,348	768,892	646,149	19.0
Morocco	120,420	119,551	-	1,012,855	752,246	34.6
Other <sup>2</sup>	65,967	-	-	240,973	55,156	336.9
<b>Total</b>	<b>9,393,182</b>	<b>10,602,058</b>	<b>7,813,328</b>	<b>108,968,594</b>	<b>105,803,889</b>	<b>3.0</b>

<sup>1</sup>Percent change calculation not meaningful as value is greater than 500.

<sup>2</sup>Based on the U.S.-Canada Free Trade Agreement, as of January 1990, the U.S. Department of Commerce began reporting statistics on U.S. exports to Canada based on information on imports provided monthly by the Canadian government. For this reason the quantity and value for coal (metallurgical and steam) and the quantity for coke are no longer strictly comparable to the historical U.S. series.

<sup>a</sup>Includes countries with exports less than or equal to 50,000 short tons in 1990.

Note: Total may not equal sum of components because of independent rounding.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report EM 522."

**Table 5. Average Price of Coal Exports, December 1991**  
(Dollars per Short Ton)

Continent and Country of Destination	December 1991	November 1991	December 1990	Year to Date		
				1991	1990	Percent Change
North America Total . . . . .	\$32.26	\$31.82	\$31.13	\$33.61	\$32.71	2.7
Canada <sup>1</sup> . . . . .	32.23	31.60	30.99	33.48	32.63	2.6
Dominican Republic . . . . .	-	36.10	-	36.80	36.41	1.1
Jamaica . . . . .	-	33.29	-	33.41	30.57	9.3
Mexico . . . . .	44.52	44.52	46.18	43.64	37.55	16.2
Other <sup>2</sup> . . . . .	-	34.68	-	34.48	37.22	-7.3
South America Total . . . . .	45.92	46.27	47.46	46.24	46.26	*
Argentina . . . . .	-	-	47.78	45.59	45.80	-5
Brazil . . . . .	45.92	46.27	47.45	46.44	46.88	-9
Chile . . . . .	-	-	-	39.48	36.87	7.1
Other <sup>2</sup> . . . . .	-	-	34.50	35.25	35.79	-1.5
Europe Total . . . . .	42.52	42.41	44.84	43.08	43.92	-1.9
Albania . . . . .	-	-	-	46.27	48.38	-4.4
Belgium & Luxembourg . . . . .	44.94	43.81	46.58	44.82	45.02	-5
Bulgaria . . . . .	-	41.74	-	42.57	49.24	-13.5
Denmark . . . . .	31.90	32.30	32.79	32.95	34.37	-4.1
Finland . . . . .	-	43.71	-	44.77	44.72	.1
France . . . . .	41.71	38.29	47.18	40.18	43.00	-6.6
Ireland . . . . .	41.05	38.21	36.29	39.53	38.54	2.6
Italy . . . . .	45.39	45.77	44.33	45.38	44.72	1.5
Netherlands . . . . .	42.03	45.33	43.44	43.18	42.93	.6
Norway . . . . .	-	-	-	32.11	-	-
Portugal . . . . .	41.42	39.83	39.69	40.87	40.80	.2
Romania . . . . .	-	-	46.10	45.89	47.53	-3.5
Spain . . . . .	48.89	41.91	49.90	45.23	46.74	-3.2
Sweden . . . . .	45.62	47.20	-	47.72	48.20	-1.0
Turkey . . . . .	-	46.65	-	46.84	46.13	1.5
United Kingdom . . . . .	43.48	45.90	47.31	46.35	47.30	-2.0
Germany, FR . . . . .	28.64	40.67	49.28	39.33	41.61	-5.5
Yugoslavia . . . . .	43.55	-	46.68	46.61	46.11	1.1
Other <sup>2</sup> . . . . .	-	-	45.00	43.50	41.28	5.4
Asia Total . . . . .	42.17	42.20	45.00	43.24	43.32	-2
China (Taiwan) . . . . .	42.94	42.43	39.75	41.73	38.64	8.0
Hong Kong . . . . .	40.82	38.02	-	38.58	38.93	-9
Israel . . . . .	41.02	-	-	39.87	39.42	1.2
Japan . . . . .	40.86	41.93	44.85	43.39	44.26	-1.9
Korea, Republic of . . . . .	45.16	44.56	47.24	45.95	46.38	-.9
Other <sup>2</sup> . . . . .	39.99	40.85	-	40.44	38.02	6.3
Oceania & Australia Total . . . . .	-	-	-	-	36.60	-
Africa Total . . . . .	41.69	39.37	46.67	41.26	39.77	3.7
Algeria . . . . .	-	-	-	46.50	47.67	-2.4
Egypt . . . . .	45.47	45.54	46.67	45.69	45.97	-.6
Morocco . . . . .	34.34	34.02	-	33.73	31.34	7.6
Other <sup>2</sup> . . . . .	48.93	-	-	48.85	-	-
Total . . . . .	41.32	40.71	43.93	42.35	42.25	.2
U.S. Total <sup>3</sup> . . . . .	41.35	40.79	43.67	42.39	42.63	-.5

\*For quantity data, the value of the number is less than 0.5 thousand short tons. For percentage calculations, the absolute value of the number is less than 0.05 percent.

<sup>1</sup>Based on the U.S.-Canada Free Trade Agreement, as of January 1990, the U.S. Department of Commerce began reporting statistics on U.S. exports to Canada based on information on imports provided monthly by the Canadian government. For this reason the quantity and value for coal (metallurgical and steam) and the quantity for coke are no longer strictly comparable to the historical U.S. series.

<sup>2</sup>Includes countries with exports less than or equal to 50,000 short tons in 1990.

<sup>3</sup>Average price of all coal exports in this category.

Note: Total may not equal sum of components because of independent rounding. Average price is based on the free alongside ship (f.a.s.) value. The average prices presented in this table are considered to be representative prices for coal exports and fall within the range of \$28 to \$60 inclusively.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report EM 522."

**Table 6. Steam Coal Exports, December 1991  
(Short Tons)**

Continent and Country of Destination	December 1991	November 1991	December 1990	Year to Date		
				1991	1990	Percent Change
<b>North America Total</b>	<b>1,009,090</b>	<b>1,490,283</b>	<b>664,147</b>	<b>7,394,304</b>	<b>11,459,527</b>	<b>-35.5</b>
Canada <sup>1</sup>	1,006,114	1,409,305	660,664	7,158,573	11,114,935	-35.6
Dominican Republic	63	58,865	-	129,727	82,057	58.1
Jamaica	-	15,048	-	51,551	52,196	-1.2
Mexico	-	6,634	3,483	51,538	207,506	-75.2
Other <sup>2</sup>	2,913	431	-	2,915	2,833	2.9
<b>South America Total</b>	<b>19,047</b>	<b>3,592</b>	<b>7,947</b>	<b>245,126</b>	<b>434,726</b>	<b>-43.6</b>
Argentina	-	-	-	1,012	-	-
Brazil	5,566	-	-	94,085	94,281	-2
Chile	-	-	54	105,409	301,847	-65.1
Other <sup>2</sup>	13,481	3,592	7,893	44,620	38,598	15.6
<b>Europe Total</b>	<b>2,495,719</b>	<b>2,731,116</b>	<b>1,693,139</b>	<b>26,975,477</b>	<b>21,691,678</b>	<b>24.4</b>
Belgium & Luxembourg	142,860	126,430	119,635	1,932,530	2,401,903	-19.5
Bulgaria	-	-	-	-	39,065	-
Denmark	387,877	444,565	185,519	4,090,054	3,132,329	30.6
Finland	-	72,463	-	141,569	-	-
France	309,569	419,276	-	3,657,720	1,917,645	90.7
Ireland	103,194	200,719	197,853	1,312,606	1,457,655	-10.0
Italy	396,858	236,467	759,228	4,785,235	4,917,467	-2.7
Netherlands	630,612	216,009	231,545	5,027,032	4,393,174	14.4
Norway	-	6,861	-	98,836	67,811	45.8
Portugal	127,363	213,903	69,711	1,555,009	1,528,306	1.7
Romania	-	-	-	143,735	-	-
Spain	51,979	252,074	68	1,291,913	312,230	313.8
Sweden	-	-	-	8,048	23,150	-65.2
Turkey	-	114,232	-	120,278	16,643	NM
United Kingdom	279,174	169,613	129,580	1,513,761	1,087,880	39.1
Germany, FR	66,233	258,504	-	1,180,970	356,165	231.6
Yugoslavia	-	-	-	109,954	12,995	NM
Other <sup>2</sup>	-	-	-	6,227	27,460	-77.3
<b>Asia Total</b>	<b>827,160</b>	<b>1,149,046</b>	<b>557,977</b>	<b>8,894,226</b>	<b>8,004,012</b>	<b>11.1</b>
China (Taiwan)	365,015	501,168	209,781	4,087,815	4,210,914	-2.9
Hong Kong	441	134,918	-	600,338	119,553	402.2
Israel	109,440	-	-	542,333	584,208	-7.2
Japan	260,376	421,303	278,026	2,873,572	2,293,578	25.3
Korea, Republic of	91,492	91,591	70,170	779,428	793,062	-1.7
Other <sup>2</sup>	396	66	-	10,740	2,697	298.2
<b>Oceania &amp; Australia Total</b>	-	-	-	133	2,094	-93.6
<b>Africa Total</b>	<b>79,660</b>	<b>119,551</b>	-	<b>813,940</b>	<b>752,676</b>	<b>8.1</b>
Egypt	-	-	-	1,070	430	148.8
Morocco	79,660	119,551	-	810,857	752,246	7.8
Other <sup>2</sup>	-	-	-	2,013	-	-
<b>Total</b>	<b>4,430,676</b>	<b>5,493,588</b>	<b>2,923,210</b>	<b>44,323,206</b>	<b>42,344,913</b>	<b>4.7</b>

<sup>1</sup>Percent change calculation not meaningful as value is greater than 500.

<sup>2</sup>Based on the U.S.-Canada Free Trade Agreement, as of January 1990, the U.S. Department of Commerce began reporting statistics on U.S. exports to Canada based on information on imports provided monthly by the Canadian government. For this reason the quantity and value for coal (metallurgical and steam) and the quantity for coke are no longer strictly comparable to the historical U.S. series.

<sup>3</sup>Includes countries with exports less than or equal to 50,000 short tons in 1990.

Note: Total may not equal sum of components because of independent rounding. Steam coal includes bituminous, subbituminous, lignite, and anthracite.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report EM 522."

**Table 7. Average Price of Steam Coal Exports, December 1991**  
(Dollars per Short Ton)

Continent and Country of Destination	December 1991	November 1991	December 1990	Year to Date		
				1991	1990	Percent Change
North America Total . . . . .	\$30.60	\$30.33	\$29.01	\$30.49	\$30.49	*
Canada <sup>1</sup> . . . . .	30.55	29.98	28.89	30.28	30.30	-0.1
Dominican Republic . . . . .	-	36.10	-	36.80	36.41	1.1
Jamaica . . . . .	-	33.29	-	33.41	30.57	9.3
Mexico . . . . .	44.52	44.52	48.33	39.16	37.46	4.5
Other <sup>2</sup> . . . . .	-	34.68	-	34.48	35.55	-3.0
South America Total . . . . .	-	-	34.50	39.13	37.16	5.3
Argentina . . . . .	-	-	-	35.95	-	-
Brazil . . . . .	-	-	-	43.64	42.44	2.8
Chile . . . . .	-	-	-	36.59	35.83	2.1
Other <sup>2</sup> . . . . .	-	-	34.50	35.25	35.79	-1.5
Europe Total . . . . .	37.65	37.35	38.95	37.74	38.55	-2.1
Belgium & Luxembourg . . . . .	37.71	36.23	35.53	37.08	37.64	-1.5
Bulgaria . . . . .	-	-	-	-	48.99	-
Denmark . . . . .	31.90	32.30	32.79	33.14	34.37	-3.6
Finland . . . . .	-	40.82	-	40.82	-	-
France . . . . .	33.26	34.18	-	33.93	37.07	-8.5
Ireland . . . . .	41.05	38.21	36.29	39.53	38.54	2.6
Italy . . . . .	41.33	42.56	41.25	41.71	40.76	2.3
Netherlands . . . . .	39.45	40.97	38.79	39.59	39.14	1.1
Norway . . . . .	-	-	-	32.11	-	-
Portugal . . . . .	41.42	39.83	39.69	40.52	39.96	1.4
Romania . . . . .	-	-	-	42.64	-	-
Spain . . . . .	41.08	34.49	41.12	34.32	34.92	-1.7
Sweden . . . . .	-	-	-	41.64	35.00	19.0
Turkey . . . . .	-	46.39	-	46.38	39.30	18.0
United Kingdom . . . . .	40.39	41.08	41.73	39.69	42.67	-7.0
Germany, FR . . . . .	28.64	35.49	-	34.95	35.27	-.9
Yugoslavia . . . . .	-	-	-	40.97	-	-
Other <sup>2</sup> . . . . .	-	-	-	40.79	39.95	2.1
Asia Total . . . . .	39.88	38.74	37.66	39.18	38.09	2.8
China (Taiwan) . . . . .	42.94	41.50	39.75	41.16	37.81	8.8
Hong Kong . . . . .	40.82	38.02	-	38.58	38.93	.9
Israel . . . . .	41.02	-	-	39.41	39.02	1.0
Japan . . . . .	35.11	35.43	35.50	36.05	37.80	-4.6
Korea, Republic of . . . . .	39.92	39.92	39.92	39.97	39.63	.8
Other <sup>2</sup> . . . . .	39.99	40.85	-	40.44	38.02	6.3
Oceania & Australia Total . . . . .	-	-	-	-	36.60	-
Africa Total . . . . .	34.02	34.02	-	33.56	31.34	7.1
Egypt . . . . .	-	-	-	40.81	35.91	13.7
Morocco . . . . .	34.02	34.02	-	33.63	31.34	7.0
Other <sup>2</sup> . . . . .	-	-	-	40.81	-	-
Total . . . . .	36.40	35.70	36.75	36.86	36.28	1.6
U.S. Total <sup>1</sup> . . . . .	36.37	35.99	36.32	36.91	36.81	.3

\*For quantity data, the value of the number is less than 0.5 thousand short tons. For percentage calculations, the absolute value of the number is less than 0.05 percent.

<sup>1</sup>Based on the U.S.-Canada Free Trade Agreement, as of January 1990, the U.S. Department of Commerce began reporting statistics on U.S. exports to Canada based on information on imports provided monthly by the Canadian government. For this reason the quantity and value for coal (metallurgical and steam) and the quantity for coke are no longer strictly comparable to the historical U.S. series.

<sup>2</sup>Includes countries with exports less than or equal to 50,000 short tons in 1990.

<sup>3</sup>Average price of all steam coal exports.

Note: Total may not equal sum of components because of independent rounding. Average price is based on the free alongside ship (f.a.s.) value. The average prices presented in this table are considered to be representative prices for coal exports and fall within the range of \$28 to \$50 inclusively. Steam coal includes bituminous, subbituminous, lignite, and anthracite.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report EM 522."

**Table 8. Metallurgical Coal Exports, December 1991  
(Short Tons)**

Continent and Country of Destination	December 1991	November 1991	December 1990	Year to Date		
				1991	1990	Percent Change
North America Total . . . . .	269,193	352,622	139,259	4,060,033	4,399,381	-7.7
Canada <sup>1</sup> . . . . .	269,193	352,600	136,281	4,019,352	4,396,188	-8.6
Mexico . . . . .	-	-	2,978	40,637	2,978	NM
Other <sup>2</sup> . . . . .	-	22	-	44	215	-79.5
South America Total . . . . .	808,966	569,985	742,491	7,415,825	6,467,532	14.7
Argentina . . . . .	-	-	62,504	428,410	640,041	-33.1
Brazil . . . . .	808,966	569,985	659,758	6,957,787	5,752,628	20.9
Chile . . . . .	-	-	20,229	29,628	74,863	-60.4
Europe Total . . . . .	2,802,159	3,119,685	2,605,135	38,544,289	36,690,459	5.1
Albania . . . . .	-	-	-	112,152	178,057	-37.0
Belgium & Luxembourg . . . . .	377,288	291,849	528,135	5,531,492	6,098,471	-9.3
Bulgaria . . . . .	54,472	107,632	-	946,224	48,890	NM
Denmark . . . . .	-	-	-	567,513	55,572	NM
Finland . . . . .	-	108,740	-	388,671	95,259	308.0
France . . . . .	677,372	364,099	329,775	5,851,290	4,961,458	17.9
Italy . . . . .	708,486	620,317	553,986	6,488,562	7,029,107	-7.7
Netherlands . . . . .	373,586	485,404	269,369	4,598,174	3,975,382	15.7
Norway . . . . .	11,742	-	11,506	101,063	109,289	-7.5
Portugal . . . . .	-	-	-	74,301	257,646	-71.2
Romania . . . . .	-	-	64,524	1,003,105	1,718,132	-41.6
Spain . . . . .	224,844	151,379	439,926	3,402,253	3,479,028	-2.2
Sweden . . . . .	81,395	275,386	-	1,231,146	842,568	46.1
Turkey . . . . .	-	170,727	-	2,065,967	2,100,649	-1.7
United Kingdom . . . . .	224,778	350,188	258,653	4,656,928	4,089,522	13.9
Germany, FR . . . . .	-	186,098	102,072	561,343	701,106	-19.9
Yugoslavia . . . . .	60,027	-	39,411	868,769	919,641	-5.5
Other <sup>2</sup> . . . . .	8,169	7,866	7,878	95,336	30,682	210.7
Asia Total . . . . .	867,213	962,557	1,301,375	12,894,186	14,721,002	-12.4
China (Taiwan) . . . . .	-	109,396	-	458,836	393,536	16.6
Israel . . . . .	-	-	-	109,050	54,788	99.0
Japan . . . . .	621,027	647,711	809,263	9,395,111	11,043,976	-14.9
Korea, Republic of . . . . .	246,186	205,450	492,112	2,931,189	3,205,965	-8.6
Other <sup>2</sup> . . . . .	-	-	-	-	22,737	-
Oceania & Australia Total . . . . .	-	-	510	-	510	-
Africa Total . . . . .	214,975	103,621	101,348	1,731,055	1,180,092	46.7
Algeria . . . . .	-	-	-	522,275	479,217	9.0
Egypt . . . . .	108,248	103,621	101,348	767,822	645,719	18.9
Morocco . . . . .	40,760	-	-	201,998	-	-
Other <sup>2</sup> . . . . .	65,967	-	-	238,960	55,156	333.2
Total . . . . .	4,962,506	5,108,470	4,890,118	64,645,388	63,458,976	1.9

<sup>1</sup>Percent change calculation not meaningful as value is greater than 500.

<sup>2</sup>Based on the U.S.-Canada Free Trade Agreement, as of January 1990, the U.S. Department of Commerce began reporting statistics on U.S. exports to Canada based on information on imports provided monthly by the Canadian government. For this reason the quantity and value for coal (metallurgical and steam) and the quantity for coke are no longer strictly comparable to the historical U.S. series.

<sup>2</sup>Includes countries with exports less than or equal to 50,000 short tons in 1990.

Note: Total may not equal sum of components because of independent rounding.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report EM 522."

**Table 9. Average Price of Metallurgical Coal Exports, December 1991  
(Dollars per Short Ton)**

Continent and Country of Destination	December 1991	November 1991	December 1990	Year to Date		
				1991	1990	Percent Change
<b>North America Total . . . . .</b>	<b>\$38.37</b>	<b>\$37.80</b>	<b>\$39.37</b>	<b>\$38.54</b>	<b>\$37.93</b>	<b>1.6</b>
Canada <sup>1</sup> . . . . .	38.37	37.80	39.28	38.43	37.93	1.3
Mexico . . . . .	-	-	43.67	49.20	43.67	12.7
Other <sup>2</sup> . . . . .	-	-	-	-	49.93	-
<b>South America Total . . . . .</b>	<b>45.92</b>	<b>46.27</b>	<b>47.48</b>	<b>46.44</b>	<b>46.84</b>	<b>.9</b>
Argentina . . . . .	-	-	47.78	45.62	45.80	-.4
Brazil . . . . .	45.92	46.27	47.45	46.48	46.95	-1.0
Chile . . . . .	-	-	-	49.78	48.84	1.9
<b>Europe Total . . . . .</b>	<b>46.93</b>	<b>46.68</b>	<b>48.65</b>	<b>46.91</b>	<b>47.29</b>	<b>-.8</b>
Albania . . . . .	-	-	-	46.27	48.38	-4.4
Belgium & Luxembourg . . . . .	47.68	47.10	49.09	47.52	47.96	-.9
Bulgaria . . . . .	-	41.74	-	42.57	49.44	-13.9
Denmark . . . . .	-	-	-	29.37	-	-
Finland . . . . .	-	45.63	-	46.21	44.72	3.3
France . . . . .	45.57	43.02	47.18	43.96	45.29	-2.9
Italy . . . . .	47.67	46.99	48.55	48.28	47.70	1.2
Netherlands . . . . .	46.40	47.27	47.44	47.11	47.12	*
Portugal . . . . .	-	-	-	48.11	45.79	5.1
Romania . . . . .	-	-	46.10	46.47	47.53	-2.2
Spain . . . . .	48.89	49.63	49.90	48.45	48.24	.4
Sweden . . . . .	45.62	47.20	-	47.76	48.61	-1.7
Turkey . . . . .	-	46.82	-	46.87	46.16	1.5
United Kingdom . . . . .	47.31	48.24	49.75	48.46	48.49	-.1
Germany, FR . . . . .	-	47.86	49.28	48.55	45.69	6.3
Yugoslavia . . . . .	43.55	-	46.68	46.61	46.11	1.1
Other <sup>2</sup> . . . . .	-	-	45.00	43.55	45.00	-3.2
<b>Asia Total . . . . .</b>	<b>44.36</b>	<b>46.32</b>	<b>48.17</b>	<b>46.00</b>	<b>46.18</b>	<b>-.4</b>
China (Taiwan) . . . . .	-	46.70	-	46.80	47.48	-1.4
Israel . . . . .	-	-	-	42.18	43.64	-3.3
Japan . . . . .	43.27	46.16	48.10	45.52	45.60	-.2
Korea, Republic of . . . . .	47.11	46.63	48.29	47.54	48.07	-1.1
<b>Africa Total . . . . .</b>	<b>44.54</b>	<b>45.54</b>	<b>46.67</b>	<b>45.03</b>	<b>46.67</b>	<b>-3.5</b>
Algeria . . . . .	-	-	-	46.50	47.67	-2.4
Egypt . . . . .	45.47	45.54	46.67	45.70	45.98	-.6
Morocco . . . . .	34.95	-	-	34.54	-	-
Other <sup>2</sup> . . . . .	48.93	-	-	48.92	-	-
<b>Total . . . . .</b>	<b>45.72</b>	<b>45.93</b>	<b>48.04</b>	<b>46.07</b>	<b>46.29</b>	<b>-.5</b>
<b>U.S. Total<sup>3</sup> . . . . .</b>	<b>45.80</b>	<b>45.95</b>	<b>48.07</b>	<b>46.15</b>	<b>46.51</b>	<b>-.8</b>

\*For quantity data, the value of the number is less than 0.5 thousand short tons. For percentage calculations, the absolute value of the number is less than 0.05 percent.

<sup>1</sup>Based on the U.S.-Canada Free Trade Agreement, as of January 1990, the U.S. Department of Commerce began reporting statistics on U.S. exports to Canada based on information on imports provided monthly by the Canadian government. For this reason the quantity and value for coal (metallurgical and steam) and the quantity for coke are no longer strictly comparable to the historical U.S. series.

<sup>2</sup>Includes countries with exports less than or equal to 50,000 short tons in 1990.

<sup>3</sup>Average price of all metallurgical coal exports.

Note: Total may not equal sum of components because of independent rounding. Average price is based on the free alongside ship (f.a.s.) value. The average prices presented in this table are considered to be representative prices for coal exports and fall within the range of \$28 to \$50 inclusively.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report EM 522."

**Table 10. Coal Exports by Customs District, December 1991  
(Short Tons)**

Customs District	December 1991	November 1991	December 1990	Year to Date		
				1991	1990	Percent Change
<b>Eastern Total . . . . .</b>	<b>6,013,875</b>	<b>5,728,391</b>	<b>5,376,494</b>	<b>69,184,891</b>	<b>66,159,542</b>	<b>4.6</b>
Boston, MA . . . . .				54,033		
Baltimore, MD . . . . .	798,268	998,059	419,140	9,789,651	7,785,862	25.7
Portland, ME . . . . .				782		
Buffalo, NY . . . . .	171,141	107,476	125,403	772,588	503,075	53.6
New York City, NY . . . . .	1,437	66	54	5,021	17,283	-70.9
Ogdensburg, NY . . . . .	3,960	28,709	1,621	110,145	53,936	104.2
Philadelphia, PA . . . . .	45,078	71,668	29,713	639,098	3,236,809	-80.3
Norfolk, VA . . . . .	4,993,991	4,522,413	4,800,563	57,867,995	54,507,762	6.2
St. Albans, VT . . . . .				393		
<b>Southern Total . . . . .</b>	<b>2,106,391</b>	<b>2,694,374</b>	<b>1,497,322</b>	<b>25,666,709</b>	<b>21,987,523</b>	<b>16.7</b>
Mobile, AL . . . . .	419,954	935,081	445,240	8,743,225	7,607,007	14.9
Savannah, GA . . . . .			194	147	194	-24.2
Miami, FL . . . . .	63	99		2,098	1,270	65.2
Tampa, FL . . . . .			1,318	11,191	19,417	-42.4
New Orleans, LA . . . . .	1,544,223	1,691,783	896,441	15,494,166	12,811,295	20.9
San Juan, PR . . . . .				168		
Charleston, SC . . . . .	87,245	60,777	134,025	1,160,590	1,192,771	-2.7
El Paso, TX . . . . .				69		
Houston-Galveston, TX . . . . .	52,151		16,695	205,980	154,108	33.7
Laredo, TX . . . . .	2,755	6,634	3,409	49,075	201,461	-75.6
<b>Western Total . . . . .</b>	<b>246,689</b>	<b>858,976</b>	<b>268,961</b>	<b>4,430,395</b>	<b>3,009,421</b>	<b>47.2</b>
Anchorage, AK . . . . .	91,125	90,897	70,170	776,955	793,062	-2.0
Nogales, AZ . . . . .				2,673		
Los Angeles, CA . . . . .	119,123	523,360	162,839	2,840,296	1,935,812	46.7
San Diego, CA . . . . .	158		74	2,080	3,372	-38.3
San Francisco, CA . . . . .			35,702	83,087	187,979	-82.4
Great Falls, MT . . . . .					131	
Portland, OR . . . . .	29,597	238,665		576,244	3,989	NM
Seattle, WA . . . . .	6,686	6,054	176	201,733	82,403	144.8
<b>Northern Total . . . . .</b>	<b>1,024,323</b>	<b>1,318,638</b>	<b>669,396</b>	<b>9,635,192</b>	<b>14,622,195</b>	<b>-34.1</b>
Chicago, IL . . . . .				108	47,242	-99.8
Detroit, MI . . . . .	61,561	68,293	276,494	520,158	3,901,244	-86.7
Duluth, MN . . . . .	64,945		30,097	130,113	503,787	-74.2
Pembina, ND . . . . .				83	284	-70.8
Cleveland, OH . . . . .	897,817	1,250,345	362,805	8,984,730	10,073,253	-10.8
Milwaukee, WI . . . . .					96,385	
Other Ports . . . . .	1,904	1,679	1,155	51,407	25,208	103.9
<b>Total . . . . .</b>	<b>9,393,182</b>	<b>10,602,058</b>	<b>7,813,328</b>	<b>108,968,594</b>	<b>105,803,889</b>	<b>3.0</b>

<sup>\*\*</sup>Percent change calculation not meaningful as value is greater than 500.

Note: Total may not equal sum of components because of independent rounding.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report EM 522."

**Table 11. Coke Exports, December 1991**  
(Short Tons)

Continent and Country of Destination	December 1991	November 1991	December 1990	Year to Date		
				1991	1990	Percent Change
North America Total . . . . .	9,834	60,349	7,177	338,595	471,138	-28.1
Canada <sup>1</sup> . . . . .	5,753	48,624	3,723	239,475	375,761	-36.3
Mexico . . . . .	4,032	11,586	3,268	98,013	94,092	4.2
Other <sup>2</sup> . . . . .	49	139	186	1,107	1,285	-13.9
South America Total . . . . .	-	10,387	-	131,940	56,758	132.5
Europe Total . . . . .	26,424	8,191	-	204,167	44,203	361.9
Asia Total . . . . .	-	-	-	65,539	31	NM
Total . . . . .	36,258	78,927	7,177	740,241	572,130	29.4

<sup>1</sup>Percent change calculation not meaningful as value is greater than 500.

<sup>2</sup>Based on the U.S.-Canada Free Trade Agreement, as of January 1990, the U.S. Department of Commerce began reporting statistics on U.S. exports to Canada based on information on imports provided monthly by the Canadian government. For this reason the quantity and value for coal (metallurgical and steam) and the quantity for coke are no longer strictly comparable to the historical U.S. series.

<sup>2</sup>Includes countries with exports less than or equal to 50,000 short tons in 1990.

Note: Total may not equal sum of components because of independent rounding.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report EM 522."

**Table 12. Coal Imports, December 1991**  
(Short Tons)

Continent and Country of Origin	December 1991	November 1991	December 1990	Year to Date		
				1991	1990	Percent Change
North America Total . . . . .	102,256	82,606	95,364	935,477	979,220	-4.5
Canada . . . . .	102,256	82,606	95,364	935,477	973,016	-3.9
Mexico . . . . .	-	-	-	-	6,204	-
South America Total . . . . .	116,544	215,647	172,270	2,416,309	1,690,987	42.9
Colombia . . . . .	116,544	134,133	143,413	1,881,439	1,428,147	31.7
Venezuela . . . . .	-	81,514	28,857	534,870	262,840	103.5
Europe Total . . . . .	-	-	-	1	6	-99.9
Czechoslovakia . . . . .	-	-	-	-	5,392	-
Denmark . . . . .	-	-	-	-	6	-
Norway . . . . .	-	-	-	-	130	-
United Kingdom . . . . .	-	-	-	-	46	-
Asia Total . . . . .	6,641	-	-	-	5,215	-
China (Peking) . . . . .	-	-	-	6,894	2	NM
Indonesia . . . . .	6,641	-	-	202	-	-
Japan . . . . .	-	-	-	6,641	-	-
Thailand . . . . .	-	-	-	1	2	-50.0
Oceania & Australia Total . . . . .	-	-	-	31,106	23,794	30.7
Australia . . . . .	-	-	-	31,106	23,794	30.7
Total . . . . .	225,441	298,253	267,635	3,389,792	2,699,395	25.6

<sup>1</sup>Percent change calculation not meaningful as value is greater than 500.

Note: Total may not equal sum of components because of independent rounding.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report IM 145."

**Table 13. Average Price of Coal Imports, December 1991**  
(Dollars per Short Ton)

Continent and Country of Origin	December 1991	November 1991	December 1990	Year to Date		
				1991	1990	Percent Change
North America Total . . . . .	\$24.76	\$23.06	\$23.67	\$25.10	\$24.55	2.2
Canada . . . . .	24.76	23.06	23.67	25.10	24.45	2.7
Mexico . . . . .	-	-	-	-	38.36	-
South America Total . . . . .	32.11	37.36	37.56	34.64	37.59	-7.8
Colombia . . . . .	32.11	33.78	35.57	32.87	36.87	-10.8
Venezuela . . . . .	-	43.24	47.49	40.87	41.50	-1.5
Europe Total . . . . .	-	-	-	-	37.17	-
Denmark . . . . .	-	-	-	-	36.35	-
United Kingdom . . . . .	-	-	-	-	37.19	-
Oceania & Australia Total . . . . .	-	-	-	37.97	41.73	-9.0
Australia . . . . .	-	-	-	37.97	41.73	-9.0
Total . . . . .	28.77	33.54	32.78	32.34	33.43	-3.3
U.S. Total <sup>1</sup> . . . . .	31.52	34.01	33.40	33.12	34.45	-3.9

<sup>1</sup>Average price of all coal imports.

Note: Total may not equal sum of components because of independent rounding. Average price is based on the free alongside ship (f.a.s.) value. The average prices presented in this table are considered to be representative prices for coal imports and fall within the range of \$20 to \$50 inclusively.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report IM 145."

**Table 14. Coal Imports by Customs District, December 1991**  
(Short Tons)

Customs District	December 1991	November 1991	December 1990	Year to Date		
				1991	1990	Percent Change
Eastern Total . . . . .	35,455	29,195	28,858	361,097	351,348	2.8
Boston, MA . . . . .	35,455	-	-	84,310	139,771	-39.7
Portland, ME . . . . .	-	29,195	28,857	207,152	143,868	44.0
Buffalo, NY . . . . .	-	-	-	134	69	94.2
New York City, NY . . . . .	-	-	1	-	1	-
Ogdensburg, NY . . . . .	-	-	-	-	45	-
Philadelphia, PA . . . . .	-	-	-	69,501	67,594	2.8
Southern Total . . . . .	87,730	186,452	143,413	2,061,987	1,384,974	48.9
Tampa, FL . . . . .	57,720	96,773	143,413	1,680,398	1,058,354	58.8
New Orleans, LA . . . . .	6,641	-	-	23,731	-	-
Wilmington, NC . . . . .	-	-	-	-	46	-
San Juan, PR . . . . .	23,369	61,606	-	211,313	234,989	-10.1
Houston-Galveston, TX . . . . .	-	-	-	11,023	5,215	111.4
Laredo, TX . . . . .	-	-	-	-	6,204	-
Virgin Islands . . . . .	-	28,073	-	135,522	80,166	69.1
Western Total . . . . .	8,372	3,945	2,394	116,420	96,480	20.7
Los Angeles, CA . . . . .	-	-	-	877	2	NM
Honolulu, HI . . . . .	-	-	-	31,106	23,794	30.7
Great Falls, MT . . . . .	2,471	3,945	2,394	57,916	42,017	37.8
Seattle, WA . . . . .	5,901	-	-	26,521	30,667	-13.5
Northern Total . . . . .	93,884	78,661	92,970	850,288	866,593	-1.9
Chicago, IL . . . . .	30,077	28,881	29,825	208,021	316,534	-34.3
Detroit, MI . . . . .	-	-	-	275	-	-
Duluth, MN . . . . .	-	-	-	211	-	-
Pembina, ND . . . . .	63,807	49,780	63,145	641,781	550,059	16.7
Total . . . . .	225,441	298,253	267,635	3,389,792	2,699,395	25.6

<sup>1</sup>Percent change calculation not meaningful as value is greater than 500.

Note: Total may not equal sum of components because of independent rounding.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report IM 145."

**Table 15. Coke Imports, December 1991  
(Short Tons)**

Continent and Country of Origin	December 1991	November 1991	December 1990	Year to Date		
				1991	1990	Percent Change
North America Total . . . . .	1,263	24,768	904	51,762	166,271	-68.9
Canada . . . . .	1,263	24,768	904	51,762	144,484	-64.2
Mexico . . . . .					21,787	
Europe Total . . . . .		21,019		21,019	39,572	-46.9
Italy . . . . .					39,572	
United Kingdom . . . . .		21,019		21,019		
Asia Total . . . . .	41,619	88,153	39,906	836,767	336,841	148.4
Japan . . . . .	41,619	88,153	39,906	836,767	336,841	148.4
Oceania & Australia Total . . . . .				189,298	222,092	-14.8
Australia . . . . .				189,298	222,092	-14.8
Total . . . . .	42,882	133,940	40,810	1,098,846	764,776	43.7

Note: Total may not equal sum of components because of independent rounding.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report IM 145."

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Quarterly Coal Report, updated 60 days after the end of the quarter

Electric Power Monthly, updated on the 1st of the month

Monthly Energy Review, updated the last week of the month

Short Term Energy Outlook, updated 60 days after the end of the quarter.

## Methodology

### Weekly Data

Estimates of national weekly coal production are based on weekly carload data collected by the Association of American Railroads (AAR) from its members (Class I Railroads) and certain other railroads. EIA calculates the average number of tons per carload for each railroad's coal car fleet from information obtained from the most recent Quarterly Freight Commodity Statistics filed by Class I Railroads with the Interstate Commerce Commission (ICC) and from data made available by individual railroads. The average number of tons per carload is then multiplied by the number of cars loaded to obtain an estimate of weekly production shipped by AAR railroads.

Next, the weekly coal production estimate for a specific week is obtained by dividing the AAR rail tonnage for the week by a factor representing the proportion of quarterly AAR rail shipments to total quarterly coal production. Because this is done on a weekly basis, and prior to completion of current quarterly statistics, the factor is derived using ICC data on tons per carload and total carloadings and from EIA data on total production for the same quarter of the previous year. Figures for the same quarter of the year are used in order to reflect seasonal variation. In some cases, the ratio of rail tonnage to total production is adjusted to take additional, more current information into consideration, such as rail or coal strikes.

Once the U.S. weekly coal production estimate is determined, this total is split into two subtotals - the portion representing States, with little or no rail coal shipments, and the portion representing the remaining States, where a significant percentage of production is shipped by rail. The States with little or no railroad coal shipments are Alaska, Arizona, California, Georgia, Iowa, Kansas, Louisiana, Missouri, Texas, and Washington. With the exception of California and Louisiana, the weekly production data for each "nonrail" State are developed by multiplying the estimate of U.S. weekly coal production by the ratio of projected production, for each State to U.S. total projected production, for the current quarter. The methodology used to project State coal production is given in the EIA publication *Model Documentation of the Short-Term Coal Analysis System* (DOE/EIA-0394). The EIA contacts the sole producer in Louisiana and California to obtain weekly production data.

Estimates for the remaining States are in aggregate equal to the U.S. weekly coal production minus the estimated production from the nonrail States.

Estimates for "rail States" are based on the AAR carload data compiled by State of origin, including separate estimates for the anthracite and bituminous coal regions in Pennsylvania, eastern and western Kentucky and northern and southern West Virginia.

Each railroad is contacted at least annually for information concerning the distribution (by state of origin) of its railroad carloadings of coal. These distribution percentages are multiplied by the railroad's weekly loadings and ICC derived tonnage per carload figures, to derive the weekly tonnages loaded by State and by railroad. The tonnages loaded by the various railroads are then summed by each State to estimate total production shipped by AAR rail for that State. These tonnages are divided by the most recent ratio of annual AAR rail tonnage to total annual production for each State. The resulting weekly coal production estimates for the rail States are then adjusted to ensure that each State's production figure contributes proportionately to the weekly coal production estimate previously derived in aggregate for the rail States.

### Monthly Data

Preliminary estimates of monthly coal production by State are obtained by summing weekly coal production estimates published in the *Weekly Coal Production* report. If a week extends into a new month, the production is allocated by day, and the days are added to the month in which they occur. For weeks without holidays, the allocation is Monday through Friday, 18.4 percent each day; Saturday, 8 percent; and Sunday, 0 percent. For weeks with a holiday occurring on a day other than Sunday, the allocation is Sunday and the holiday, 0 percent; and any other day, 20 percent.

Preliminary weekly and monthly production estimates are revised quarterly when quarterly production data become available. Preliminary weekly and monthly estimates are proportionately adjusted to conform to the quarterly production figure.

### Quarterly Data

Estimates of quarterly coal production are based on data collected quarterly on Form EIA-6, with certain adjustments. The national estimate of quarterly coal production is set equal to the quarterly U.S. coal production total as reported on the Form EIA-6. Based on 1988 through 1990 data, the coal production estimation error for a quarter at the national level (i.e., the difference between the sum of

the weekly estimates for a quarter and the quarterly EIA-6 preliminary data) ranges from 1 percent to 4 percent for 1988, 1 percent to 2 percent for 1989, and 0.3 percent to 3 percent for 1990.

The quarterly production data, although published throughout the year, are considered preliminary until EIA annual production data are finalized in September of the following year. At that time quarterly production data are revised (proportionately adjusted) to conform to the final annual production figures.

### Finalizing Annual Production

Preliminary total annual U.S. coal production, as reported in the *Weekly Coal Production* report in the first week in January of the following year, is the sum of revised monthly/quarterly estimates of production for the first 9 months (first three quarters) and a preliminary estimate of fourth quarter production derived from weekly estimates.

When production data for the fourth quarter of the year become available from Form EIA-6 in March of the following year, the preliminary fourth-quarter U.S. total production figure and corresponding State-level figures may or may not be revised, depending on the size of the difference between the estimates and fourth-quarter data. As a general practice, EIA does not revise the initial annual production estimates (determined initially in January of the following year). Weekly, monthly, and quarterly State and national production data are adjusted to conform to finalized annual production figures derived from Form EIA-7A, in September of the following year.

Based on 1988 through 1990 data, the revision error for a quarter at the national level (i.e., the difference between the EIA-6 preliminary data and the EIA-7A final data) ranges from 0.02 percent to 0.08 percent for 1988, 0.09 percent to 0.14 percent for 1989, and 0.01 percent to 0.05 percent for 1990. Usually the EIA-7A coal production data are higher than the EIA-6 coal production data, due to differences in the threshold reporting requirements.